Dogo Rangsang Research JournalUGC Care Group I JournalISSN : 2347-7180Vol-13, Issue-4, No. 20, April 2023DEVELOPMENT OF A COLLEGE PLACEMENT WEB SITE USING THE MEAN STACK

G. Pratyusha, Assistant Professor, Department of Computer Science and Engineering, DVR & Dr HS, MIC College of Technology, Kanchikacherla, AndhraPradesh, India.

Dr.G.Sai Chaitanya Kumar, Associate Professor, Department of Computer Science and Engineering, DVR & Dr HS, MIC College of Technology, Kanchikacherla, AndhraPradesh, India. K.Alekhya, V.S.N.VaraPrasad, U.Anuradha, K.Anand Kumar, UG Students, Department of Computer Science and Engineering, DVR & Dr HS, MIC College of Technology, Kanchikacherla, AndhraPradesh, India.

Abstract:

Placements can bring a wide range of benefits and opportunities. Training and management of placement is a crucial part of an education a l institution. Our website with the help of latest technology called "MEAN Stack" which is state das Mongo DB, Express JS, Angular, Node JS and Application program Interface(API) is the heart of our project .We use Angular as front-end and Express JS and Node JS as back-end to our website which improves the performance of our application. The main aim of this application is to provide detail view of students who got placed indifferent companies, details of placement committee of that educational institute, training programs that were conducting, placement statistics, information about the recruiters and some career guidelines. College Placement Guide Website is a static website in which admin can view and download the information about the student Recruitment. The paper presents the implementation details, challenges faced, and the future scope of the website.

1.Introduction:

College placement is a crucial aspect of the student's career. College Placement Guide websit egives the detail information about the students placed in the past few years. Students can take thes ample mock tests in this website based on the different companies under drives section. Admin can login and create them ocktests with exam title, description and few more details. In the about page students can know about the training placement officers information, recruiters information of that college. And in the training section users can know about the training programs,workshops andother technical programs conducted in that college.

2.Related Work:

The current college placement website contains the statistics of placements of that college. It requires more human involvement in adding the data .So it is time consuming process. It is most important to create user friendly interface. Due to system flaws, these errors cause significant maintenance issues and student dropout. Manual labor makes documenting and categorizing extremely tough. These analytical techniques [5] result in complicated administration and high analytical expenses, making the system costly and inefficient.

3.ProposedMethod:

Development of College Placement GuideWebsite:

To develop a college placement website using the MEAN stack, we need to follow the below steps:

Step1:Set up the Development Environment We need to install NodeJS, Mongo DB, and

Angular JS. After installing these technologies, weneed to set up the development environment and create anew project.

Step2:Design the Database We need to design the data bases chema and createa database using MongoDB. The database[6] should have collections for students, companies, and job openings. **Step3**:ImplementtheServer-SideCode

We need to use Express JS to create REST ful APIs that can interact with the database.

Dogo Rangsang Research Journal ISSN: 2347-7180

UGC Care Group I Journal Vol-13, Issue-4, No. 20, April 2023

TheAPIsshould be able to perform CRUD (Create, Read, Update, Delete) operations on the database. Wealso need to implement authentication and authorization to restrict access to certain resources. **Step4**:DeveloptheClient-SideCode

We need to use AngularJS to develop the client-sidecode.

The client-side code should interact with the server-side APIs to display data to the user. Weneed to implement features such as searching for job openings, applying for jobs, and tracking thestatusof job applications.

We need to use AngularJS to develop the client-sidecode.

Step5:Deploythe Application

We need to deploy the application on a cloud platform such as AWS or Heroku. We also need to configure the application to use HTTPS to ensure these curity of user data.

3.1 Methodology:

The website is developed using the agilemethodology. The agile methodology is a popularapproachtosoftwaredevelopmentthatemphasizescollaboration,flexibility,andincremental development[7]. The agile methodologyallows for the development team to adapt tochanges quickly and deliver a working product inshort iterations. The website is designed using responsive design. Responsive design is anapproach to web design that allows the website toadapt to different screen sizes. The website isdesigned to provide a seamless user experienceacross different devices such as mobile, tablet, anddesktop.

3.2 Technologies Used:

The MEAN stack is a popular web developmentstack that comprises four technologies: MongoDB, Express JS, Angular JS, and Node JS. It is afull-stack JavaScript framework that allowsdeveloperstobuilddynamicwebapplications. Mongo DB is a NoSQL database that stores data in JSON like documents. It is a flexible and scalable database that allows developers to and retrieve data easily. Express JS[8] is a back-endweb framework that helps developers build webapplicationsquickly.Itprovidesvariousfeatures, such as middleware support, routing, andtemplating engines. Angular JS is a front-endframework that allows developers to createdynamicandinteractivewebapplications. It is powerful framework that provides two-way data binding, dependency injection, and modularization[9]. Node JS is a run time environment that allows developers to run JavaScript on the server-side. It provides an event- driven architecture and nonblocking I/O operations.

4.Results and Discussion:

The website was successfully built using the MEAN stack, and all its functionalities were tested successfully. The website provides a user- friendly interface for both students and recruiters to interact seamlessly. The website also provides statistical analysis of the placement activities, which[10] can be used by the administrators to make informed decisions. The website was also found to be scalable and can handle a large number of users simultaneously.

State College of Beltanings	ABOUT	STATISTICS	PROGRAMS	LEARNING	DRIVES	Logou
Hello Test Your Skills With These Quizz	tes.					
Create Test						
The Quiz						
Each quiz contains 10-15 questions, you get 1 poin get your total score.	t for each correct answer, at the en	d of each quiz yo	u .		2	
When you finish the quiz, you can go through each	question with the correct answer.		1	10	Í	
verzeo						
learn here lead anywhere						

Figure 1: Home Page

Dogo Rangsang Research Journal ISSN : 2347-7180

τ	JGC Ca	re G	rou) I	Jou	ırnal
Vol-13	Issue-4	No.	20,	A	pril	2023





		(choose File		
	v				
Redg no	Name	Branch	compan		
23-501	GEETHA, Kasi	CSE	TCS		
23-440	PUSHPA, Sasi	ECE	INFOSY:		
23-333	KRISHNA, Kasi	IT	ACCENT		
23-632	VASU, Jasi	MECH	INFOR	MC Cologe of Technology	ABOUT STATISTICS PROGRAMS LEARNING
23-560	JAMES, Sasi	CSE	TCS		Placement And Training Department
23-307	VAMSI, Masi	lī	WIPRO		Our institute located near ujigaawada,a well known place for kenning.Our college is affiliated to JNTUC/recognised by ACTE. Lonem (spum is simply dummy text of the printing and spesetting ind Lorem losum has been the industry's standard dummy reat ever since the 1500s, when an unknown
23-566	PRIYA, Kasi	CSE	INFOSY:		took a galley of type and scrambled it to make a type specimen book. It has survived not only five or but also the lean into electronic to presention remaining essentially unchanned. It was non-ularised in
43.433	VED Kari	IT	DEITAV		with the release of Letraset sheets containing Lorem (psum passages, and more recently with desk)





Our Recruiters



Copyright @ 2023 Authors

LOGIN

Figure 4: Drives Page

6.Conclusion:

The development of a college placement website using the MEAN stack can help streamline college placement process. The website can provide a platform for students to find job opportunities and for employers to post job openings. The website is developed using the agile methodology and implements responsive design for better user experience. The website uses MongoDB, Express, Angular JS, and Node js as the technology stack.

6.1 Future Work:

Future work includes improving the recommendation engine to suggest suitable job openings for students based on their skill set, providing a chat bot for instant communication between the recruiters and the students, and integrating the website with social media platforms to increase its reach. The website can be further improved by implementing features such as job recommendation systems and automated resume screening.

7.References:

[1] Santhosh Kumar H, Mrs. Srividhya V R, 2016, "Online Training and Placement Management System,' INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) ICACT – 2016.

[2] Suraj Trimukhe, Anil Todmal, Kanchan Pote, Monali Gite, Asst. Prof. S.S. Pophale, "Online Training and Placement System", International Journal of Advanced Research in Computer Science and Software Engineering., Issue 4, April 2017

[3] SPOORTHI M S, KAVANA V, KOUSHIK S N,VEENA M, "A Review on Placement Management System," International Journal of Creative research thoughts (IJCRT), Issue 7, July 2021.

[4] Twinkle Panchal; Mayuresh Wadke; Prof. Aishwarya Sedamkar; "Placement Management System", IRJET, 2022.

[5] G.Sai Chaitanya Kumar, Dr.Reddi Kiran Kumar, Dr.G.Apparao Naidu, "Noise Removal in

Dogo Rangsang Research Journal ISSN: 2347-7180

UGC Care Group I Journal Vol-13, Issue-4, No. 20, April 2023

Microarray Images using Variational Mode Decomposition Technique "Telecommunication computing Electronics and Control ISSN 1693-6930 Volume 15, Number 4 (2017), pp. 1750-1756 [6] S. Gorintla, B. A. Kumar, B. S. Chanadana, N. R. Sai and G. S. C. Kumar, "Deep-Learning-Based Intelligent PotholeEye+ Detection Pavement Distress Detection System," 2022 International Conference on Applied Artificial Intelligence and Computing (ICAAIC), 2022, pp. 1864-1869, doi: 10.1109/ICAAIC53929.2022.9792696.

[7] V. S. Rao, V. Mounika, N. R. Sai and G. S. C. Kumar, "Usage of Saliency Prior Maps for Detection of Salient Object Features," *2021* Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (*I-SMAC*), 2021, pp. 819-825, doi: 10.1109/I-SMAC52330.2021.9640684

[8] G. S. C. Kumar, D. Prasad, V. S. Rao and N. R. Sai, "Utilization of Nominal Group Technique for Cloud Computing Risk Assessment and Evaluation in Healthcare," 2021 Third International Conference on Inventive Research in Computing Applications (ICIRCA), 2021, pp. 927-934, doi: 10.1109/ICIRCA51532.2021.9544895

[9] Mandru D.B., ArunaSafali M., Raghavendra Sai N., Sai Chaitanya Kumar G. (2022) Assessing Deep Neural Network and Shallow for Network Intrusion Detection Systems in Cyber Security. In: Smys S., Bestak R., Palanisamy R., Kotuliak I. (eds) Computer Networks and Inventive Communication Technologies. Lecture Notes on Data Engineering and Communications Technologies, vol 75. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-3728-5 52</u>

[10] N. R. Sai, G. S. C. Kumar, M. A. Safali and B. S. Chandana, "Detection System for the Network Data Security with a profound Deep learning approach," 2021 6th International Conference on Communication and Electronics Systems (ICCES), 2021, pp. 1026-1031, doi: 10.1109/ICCES51350.2021.94889.